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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,766	11/02/2001	Antti Ruha	872.0100.U1(US)	7390
29683	7590	08/21/2007	EXAMINER	
HARRINGTON & SMITH, PC			TRAN, PABLO N	
4 RESEARCH DRIVE			ART UNIT	PAPER NUMBER
SHELTON, CT 06484-6212			2618	
			MAIL DATE	DELIVERY MODE
			08/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
10/005,766	11/02/01	RUHA ET AL.	872.0100.01 (US)

EXAMINER	
PABLO TRAN	
ART UNIT	PAPER NUMBER
2618	

DATE MAILED:

INTERVIEW SUMMARY

All participants (applicant, applicant's representative, PTO personnel):

(1) ED URBAN (3) PABLO TRAN
(2) JOHN GARRITY (4) _____

Date of Interview 08/07/07

Type: Telephonic Televideo Conference Personal (copy is given to applicant applicant's representative).

Exhibit shown or demonstration conducted: Yes No If yes, brief description: _____

Agreement was reached. was not reached.

Claim(s) discussed: Claims 1-51.

Identification of prior art discussed: _____

Description of the general nature of what was agreed to if an agreement was reached, or any other comments: _____

Per telephone conversation on 08/07/07, the Examiner will issue a Non-Final action.

(A fuller description, if necessary, and a copy of the amendments, if available, which the examiner agreed would render the claims allowable must be attached. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

It is not necessary for applicant to provide a separate record of the substance of the interview.

Unless the paragraph above has been checked to indicate to the contrary, A FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW.

Examiner Note: You must sign this form unless it is an attachment to another form.

Manual of Patent Examining Procedure, Section 713.04 Substance of Interview must Be Made of Record

Except as otherwise provided, a complete written statement as to the substance of any face-to-face or telephone interview with regard to an application must be made of record in the application, whether or not an agreement with the examiner was reached at the interview.

§1.133 Interviews

(b) In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111 and 1.135. (35 U.S.C. 132)

§ 1.2. Business to be transacted in writing. All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete a two-sheet carbon interleaf Interview Summary Form for each interview held after January 1, 1978 where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks in neat handwritten form using a ball point pen. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, pointing out typographical errors or unreadable script in Office actions or the like, or resulting in an examiner's amendment that fully sets forth the agreement are excluded from the interview recordation procedures below.

The Interview Summary Form shall be given an appropriate paper number, placed in the right hand portion of the file, and listed on the "Contents" list on the file wrapper. In a personal interview, the duplicate copy of the Form is removed and given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephonic interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication.

The Form provides for recordation of the following information:

- Application Number of the application
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (personal or telephonic)
- Name of participant(s) (applicant, attorney or agent, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the claims discussed
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). (Agreements as to allowability are tentative and do not restrict further action by the examiner to the contrary.)
- The signature of the examiner who conducted the interview
- Names of other Patent and Trademark Office personnel present.

The Form also contains a statement reminding the applicant of his responsibility to record the substance of the interview.

It is desirable that the examiner orally remind the applicant of his obligation to record the substance of the interview in each case unless both applicant and examiner agree that the examiner will record same. Where the examiner agrees to record the substance of the interview, or when it is adequately recorded on the Form or in an attachment to the Form, the examiner should check a box at the bottom of the Form informing the applicant that he need not supplement the Form by submitting a separate record of the substance of the interview.

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- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner. The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he feels were or might be persuasive to the examiner,
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Examiner to Check for Accuracy

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10/005,766	11/02/01	RVHA ET AL.	872.0100.01(VS)

EXAMINER	
PABLO TRAN	
ART UNIT	PAPER NUMBER
2618	

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Office Action Summary	Application No.	Applicant(s)	
	10/005,766	RUHA ET AL.	
	Examiner	Art Unit	
	Pablo N. Tran	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 08 August 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) 25-38 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3, 5-15, 17-24, 39-41, 43-51 is/are rejected.
- 7) Claim(s) 4,16 and 42 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
2. Claims 2, 14, and 40 recites the limitation said other IC". There is insufficient antecedent basis for this limitation in the claim.
3. Claims 2, 14, and 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 2, 14, and 40, the claimed limitation, "a first pair of adjacently disposed conductors" and "a second pair of adjacently disposed conductors" rendered the limitation indefinite. According to the specification, especially figure 3-4 and figure 6-14, the drawings show that there is a pair of conductor (w1, w2) connected between the transmitter (12) and receiver (14). The examiner will interpret as a pair of conductor for data transmission between the transmitter (12) and receiver (14) and examine as such.

4. Claims 3, 15, and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 3, 15, and 41, the claimed limitation, "wherein said transmitter circuitry and said receiver circuitry are selectively configured by switches for operating

under a condition..." rendered the limitation indefinite. The claims stated the condition for the switches but do not specifically stated the operating mode of the switches. Appropriated correction required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-2, 5-14, 17-24, 39-40, and 43-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over anticipated Young (6,346,832) in view of Moyer (6,566,911).

As per claims 1, 5-6, 13, 17, and 23, 39, and 43-44, Young disclosed a multi-mode Input/Output circuit for transmitting and receiving data between integrated circuits wherein each IC having at least one of transmitter circuitry (fig. 1/no. 10) and receiver circuitry (fig. 1/no. 12), that are selectively interconnected together by switches to operate as single-ended, voltage mode links, and as a single differential voltage mode link (col. 4/ln. 9-14).

Young disclosed such pair of conductor being utilized as single-ended mode but not explicitly as two single-ended mode. However, Moyer suggested such method (abstract). Therefore, it would have been obvious to one of ordinary skill in the art to provide such switching mode, as taught by Moyer, to the Multi-Channeling Apparatus of

Art Unit: 2618

Young in order provide a flexible interface signaling for an integrated circuit and save cost.

The modified communication apparatus of Young and Moyer further disclosed the I/O circuits are constructed of CMOS-based transistors (see Moyer, abstract).

As per claims 2, 14, and 40, the modified communication apparatus of Young and Moyer further disclosed the transmitter sends data to the receiver in another IC over a pair of adjacently disposed conductors (see Young, fig. 1/wire 1 & 2, see Moyer, fig. 4/ pad 54 & 56).

As per claims 7, 18, and 45, the modified communication apparatus of Young and Moyer further disclosed single-ended current mode (see Moyer, col. 5/ln. 16-col. 6/ln. 39).

As per claims 8, 19 and 46, the modified communication apparatus of Young and Moyer further disclosed a single differential voltage mode with single-ended input drive (see Young, col. 3/ln. 56-col. 4/ln. 14, see Moyer, col. 5/ln. 42, col. 7/ln. 30-38).

As per claims 9, 20, and 47, the modified communication apparatus of Young and Moyer further disclosed single differential voltage mode with differential input drive (see young, col. 3/ln. 56-col. 4/ln. 14, see Moyer, col. 4/ln. 21-23).

As per claims 10, 21, and 48, the modified communication apparatus of Young and Moyer further disclosed single differential current mode with single-ended input drive (see Moyer, col. 4/ln. 21-23).

As per claims 11, 22, and 49, the modified communication apparatus of Young and Moyer further disclosed single differential current mode with differential input drive (see Moyer, col. 4/ln. 19-col. 5/ln. 8).

As per claims 12, 24, and 50, the modified communication apparatus of Young and Moyer further disclosed switches are provided to convert said I/O into either transmitter or receiver circuitry (see Moyer, abstract, col. 1/ln. 8-22).

7. Claim 51 is rejected under 35 U.S.C. 103(a) as being unpatentable over the modified communication apparatus of Young and Moyer and further in view of Pena-Finol et al. (5,832,370).

As per claim 51, the modified communication apparatus of Young and Moyer does not specifically teaches that the IC comprises of RF and where at least one of said IC is a base-band IC. However, Pena-Finol et al. teaches such IC (fig. 2). Therefore, it would have been obvious to one of ordinary skill in the art to provide such RF IC, as taught by Pena-Finol et al. to the modified communication apparatus of Young and Moyer in order to provide a compact-cost effective communication apparatus that facilitates communication without interference.

Allowable Subject Matter

8. Claims 3, 15, and 41 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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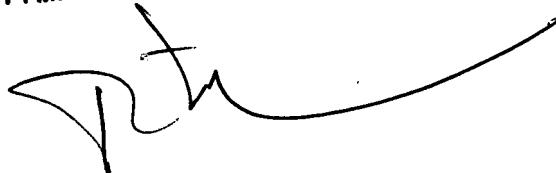
9. Claims 4, 16, and 42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (571)272-7898. The examiner normal hours are 9:30 -5:00 (Monday-Friday). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571)272-7899. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) System. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PABLO N. TRAN
PRIMARY EXAMINER



AV2618

August 8, 2007